

# National Energy Technology Laboratory



## Solid State Lighting Program - “Organization”

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**November 13, 2003**



# **Government – SSL Partnership Cooperative R&D Program for SSL**

- Emphasize Competition
- Cost (and Risk) Sharing
- Partners Involved in Planning and Funding
- Targeted Research for Focused Need
- Innovative IP Provisions
- Open Information and Process
- Success determined by milestones met and ultimately energy efficient, long-life and cost-competitive products developed

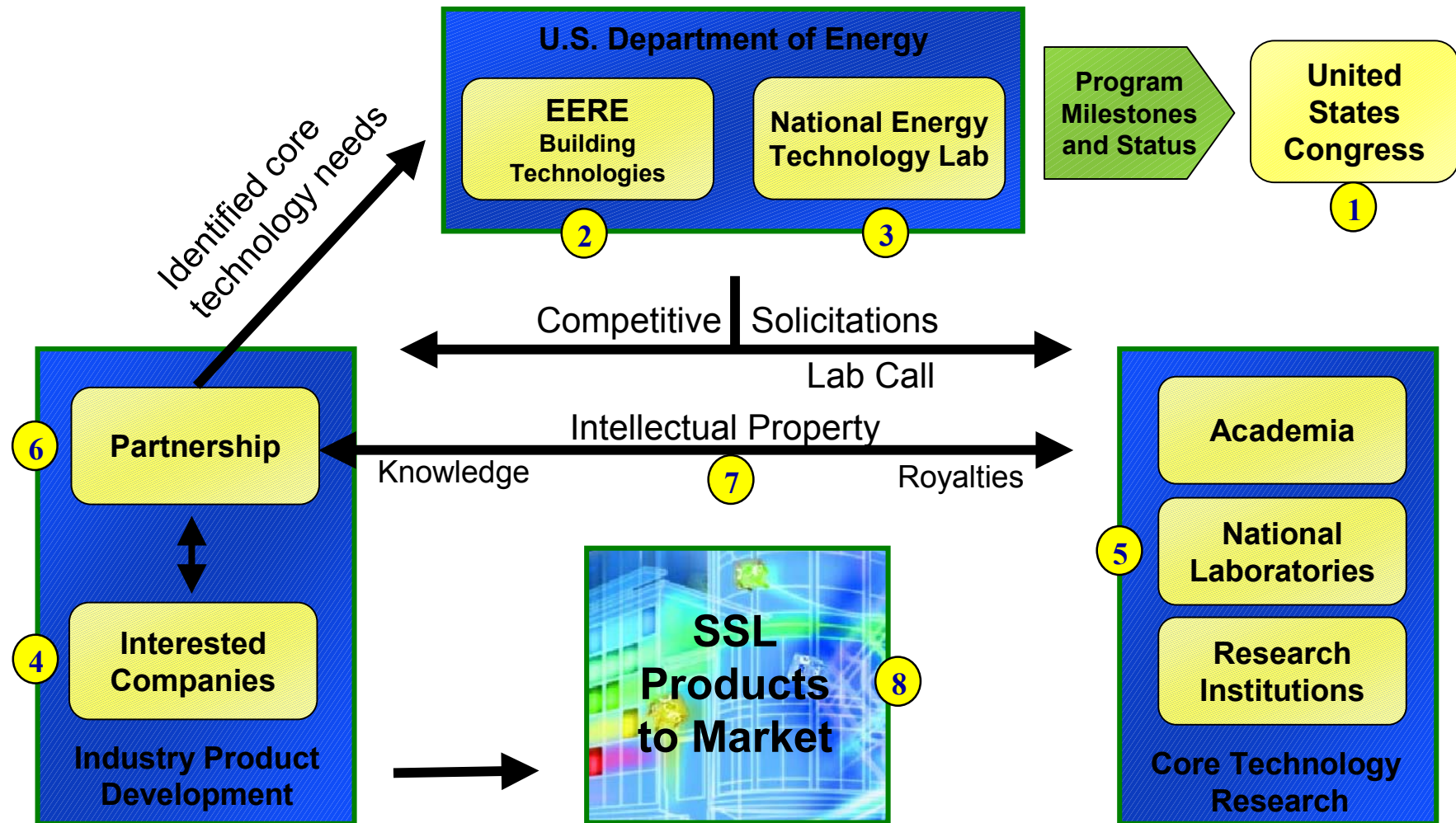


## Current Structure...

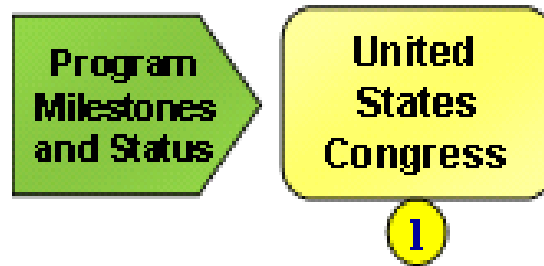
- **Disclaimer:** The slides that follow are current thinking, November 13, 2003. The DOE values your input to the structure of this innovative government-private sector partnership and encourages you to communicate your thoughts (at the appropriate times, of course). Following this presentation is the “Panel Discussion: Question and Answer Period”.  
and comment



# Structure of SSL Operational Plan

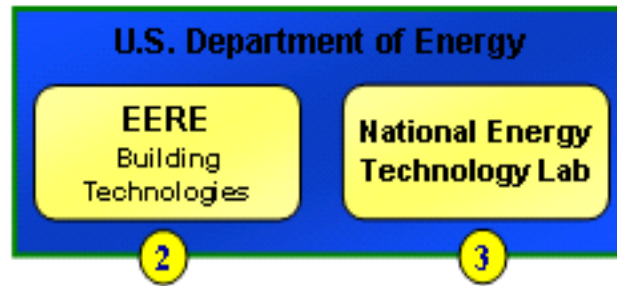


# United States Congress



- **Issues Appropriations and Language that “authorizes” the DOE to perform research and development in programs**
  - May issue appropriations
  - May issue language
  - Language may provide detailed guidelines on how to implement the program
- **Requires reporting on program success**
  - Milestones
  - Status

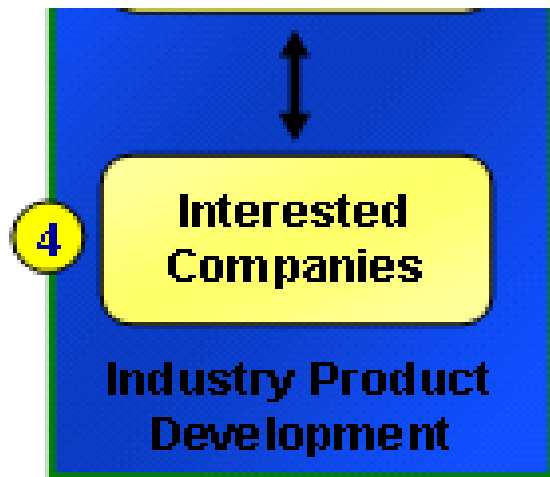
# Building Technologies and NETL



- **EERE Building Technologies**
  - Serve as Program Lead for activities
  - Performs strategic planning
  - Performs program definition
  - Interfaces with Congress
- **National Energy Technology Laboratory**
  - Develops and issues solicitations
  - Performs project management of selected projects
  - Reports on project status to HQ



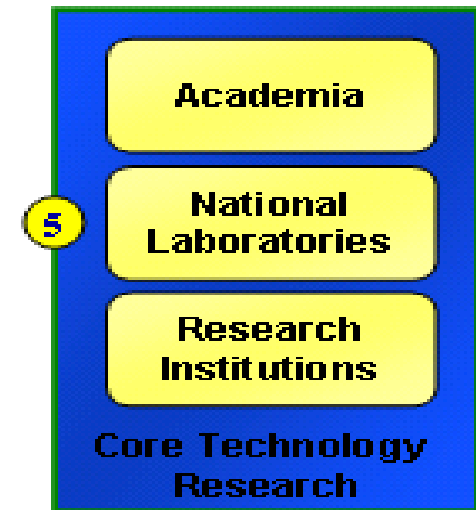
# Interested Companies



- **Competitive solicitation to industry**
- **Needs developed by DOE from results of this meeting**
- **Applications will require cost sharing**
- **Applications will require plan/SOW through development of a marketable product**

# Core Technology Program

- **Solicitations**
  - to National Laboratories (“lab call”)
  - to academia and research institutions
- **Earlier stages of development**
- **May or may not require cost sharing**
- **Needs developed by DOE with input from Partnership group**
- **Applications will be for barrier issues that may apply to multiple technical areas, i.e. product development not required**





# SSL Partnership

## WHY?

- Provide input to and prioritization of the Core Technology Needs
- Provide technical reviews of Core Technology projects
- Help organize and sponsor yearly SSL conference/workshop
- Congress is requesting (officially or unofficially) more industry involvement



# SSL Partnership

## Selection Priorities:

1. Guarantee all interested, qualified<sup>1</sup> organizations have fair and equal access to participate in the group
2. Maximize the group's self-governing while assuring priority 1



**Note 1)** It is intended that this group will include organizations that produce SSL products

# SSL Partnership

## Two Possible Methods of Selection

1. **Competitive solicitation to select the “Partnership Group”**
    - Would maximize priority 2 but might limit priority 1
  2. **DOE issues a Request for Qualifications to meet certain, DOE defined criteria, i.e. related to production of products.**
    - Would maximize priority 1 but might limit priority 2
- **The chosen method would likely incorporate the positive aspects of both methods to assure both priorities are met.**



**Reminder: Priority 1 is related to “fair and equal access” and priority 2 is “self-governing”**

# Intellectual Property



- DOE plans to request an exceptional circumstances determination to Bayh-Dole (Patent and Trademark Law Amendments Act)
- Purpose is to speed the development of improved solid state lighting products
- It is envisioned that:
  - Core developers have easy access to a group of interested manufacturers
  - Non-exclusive licensing (in SSL area within first year after patents issued) will create competition to market products faster

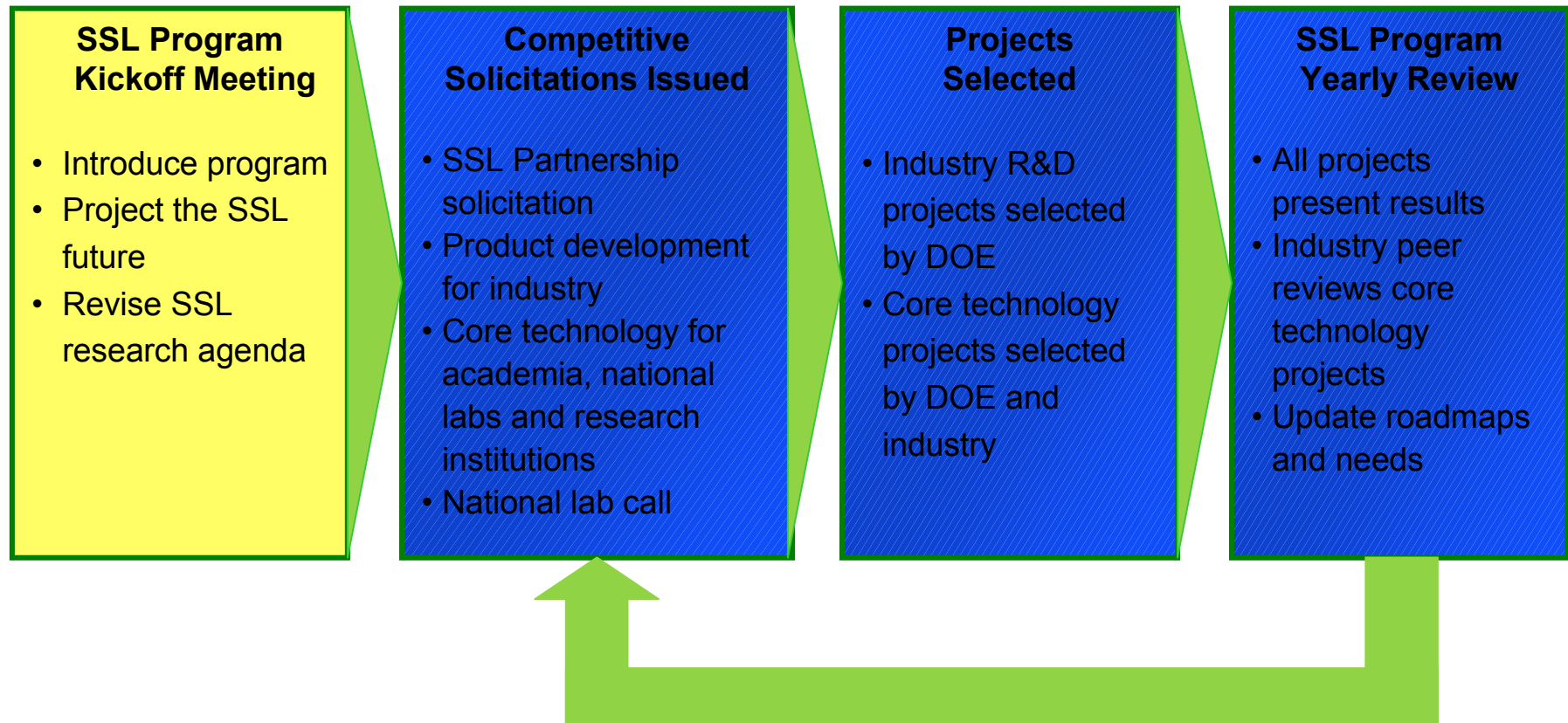
# SSL Products to Market

## SSL Program Goal...

“By 2015, develop advanced solid state lighting technologies that compared to conventional lighting technologies, are much more energy efficient, longer lasting, and cost-competitive by targeting a product system efficiency of 50 percent with lighting that accurately reproduces sunlight spectrum”



# SSL Operational Plan Process



## Solicitation Schedule

2Q FY'04	<ul style="list-style-type: none"><li>• Lab Call and Solicitation for Applied Research</li></ul>
2Q FY'04	<ul style="list-style-type: none"><li>• Industry <i>et al.</i>, Solicitation for Product Development</li></ul>
2Q FY'04	<ul style="list-style-type: none"><li>• SSL Partnership Solicitation</li></ul>